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<110> Adams, Sean H.
Goddard, Audrey D.
Grimaldi, J. Christopher

<120> BFIT Compositions and Methods of Use

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<140> Unknown
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<170> PatentIn Ver. 2.1

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<212> DNA
<213> Homo sapiens

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Ser Ala Met Ala Asp Gly Glu Gly Tyr Arg Asn Pro Thr Glu Val Gln
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Met Ser Gln Leu Val Leu Pro Cys His Thr Asn Gln Arg Gly Glu Leu
     50                  55                  60

Ser Val Gly Gln Leu Leu Lys Trp Ile Asp Thr Thr Ala Cys Leu Ser
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Ala Glu Arg His Ala Gly Cys Pro Cys Val Thr Ala Ser Met Asp Asp
                 85                  90                  95

Ile Tyr Phe Glu His Thr Ile Ser Val Gly Gln Val Val Asn Ile Lys
            100                 105                 110

Ala Lys Val Asn Arg Ala Phe Asn Ser Ser Met Glu Val Gly Ile Gln
        115                 120                 125

Val Ala Ser Glu Asp Leu Cys Ser Glu Lys Gln Trp Asn Val Cys Lys
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Ala Leu Ala Thr Phe Val Ala Arg Arg Glu Ile Thr Lys Val Lys Leu
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Lys Gln Ile Thr Pro Arg Thr Glu Glu Glu Lys Met Glu His Ser Val
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Ala Ala Glu Arg Arg Arg Met Arg Leu Val Tyr Ala Asp Thr Ile Lys
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Cys Ser Arg Met Val Pro Ala Glu Lys Thr Arg Val Glu Ser Val Glu
210 215 220

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225 230 235 240

Gln Ile Met Ala Trp Met Glu Asn Val Ala Thr Ile Ala Ala Ser Arg
245 250 255

Leu Cys Arg Ala His Pro Thr Leu Lys Ala Ile Glu Met Phe His Phe
260 265 270

Arg Gly Pro Ser Gln Val Gly Asp Arg Leu Val Leu Lys Ala Ile Val
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Asn Asn Ala Phe Lys His Ser Met Glu Val Gly Val Cys Val Glu Ala
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Tyr Arg Gln Glu Ala Glu Thr His Arg Arg His Ile Asn Ser Ala Phe
305 310 315 320

Met Thr Phe Val Val Leu Asp Ala Asp Asp Gln Pro Gln Leu Leu Pro
325 330 335

Trp Ile Arg Pro Gln Pro Gly Asp Gly Glu Arg Arg Tyr Arg Glu Ala
340 345 350

Ser Ala Arg Lys Lys Ile Arg Leu Asp Arg Lys Tyr Ile Val Ser Cys
355 360 365

Lys Gln Thr Glu Val Pro Leu Ser Val Pro Trp Asp Pro Ser Asn Gln
370 375 380

Val Tyr Leu Ser Tyr Asn Asn Val Ser Ser Leu Lys Met Leu Val Ala
385 390 395 400

Lys Asp Asn Trp Val Leu Ser Ser Glu Ile Ser Gln Val Arg Leu Tyr
405 410 415

Thr Leu Glu Asp Asp Lys Phe Leu Ser Phe His Met Glu Met Val Val
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His Val Asp Ala Ala Gln Ala Phe Leu Leu Leu Ser Asp Leu Arg Gln

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Arg Pro Glu Trp Asp Lys His Tyr Arg Ser Val Glu Leu Val Gln Gln
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Val Asp Glu Asp Asp Ala Ile Tyr His Val Thr Ser Pro Ala Leu Gly
465                 470                 475                 480

Gly His Thr Lys Pro Gln Asp Phe Val Ile Leu Ala Ser Arg Arg Lys
                485                 490                 495

Pro Cys Asp Asn Gly Asp Pro Tyr Val Ile Ala Leu Arg Ser Val Thr
            500                 505                 510

Leu Pro Thr His Arg Glu Thr Pro Glu Tyr Arg Arg Gly Glu Thr Leu
        515                 520                 525

Cys Ser Gly Phe Cys Leu Trp Arg Glu Gly Asp Gln Leu Thr Lys Cys
    530                 535                 540

Cys Trp Val Arg Val Ser Leu Thr Glu Leu Val Ser Ala Ser Gly Phe
545                 550                 555                 560

Tyr Ser Trp Gly Leu Glu Ser Arg Ser Lys Gly Arg Arg Ser Asp Gly
                565                 570                 575

Trp Asn Gly Lys Leu Ala Gly Gly His Leu Ser Thr Leu Lys Ala Ile
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35 40 45

Met Ser Gln Leu Val Leu Pro Cys His Thr Asn Gln Arg Gly Glu Leu
50 55 60

Ser Val Gly Gln Leu Leu Lys Trp Ile Asp Thr Thr Ala Cys Leu Ser
65 70 75 80

Ala Glu Arg His Ala Gly Cys Pro Cys Val Thr Ala Ser Met Asp Asp
85 90 95

Ile Tyr Phe Glu His Thr Ile Ser Val Gly Gln Val Val Asn Ile Lys
100 105 110

Ala Lys Val Asn Arg Ala Phe Asn Ser Ser Met Glu Val Gly Ile Gln
115 120 125

Val Ala Ser Glu Asp Leu Cys Ser Glu Lys Gln Trp Asn Val Cys Lys
130 135 140

Ala Leu Ala Thr Phe Val Ala Arg Arg Glu Ile Thr Lys Val Lys Leu
145 150 155 160

Lys Gln Ile Thr Pro Arg Thr Glu Glu Glu Lys Met Glu His Ser Val
165 170 175

Ala Ala Glu Arg Arg Arg Met Arg Leu Val Tyr Ala Asp Thr Ile Lys
180 185 190

Asp Leu Leu Ala Asn Cys Ala Ile Gln Gly Asp Leu Glu Ser Arg Asp
195 200 205

Cys Ser Arg Met Val Pro Ala Glu Lys Thr Arg Val Glu Ser Val Glu
210 215 220

Leu Val Leu Pro Pro His Ala Asn His Gln Gly Asn Thr Phe Gly Gly
225 230 235 240

Gln Ile Met Ala Trp Met Glu Asn Val Ala Thr Ile Ala Ala Ser Arg
245 250 255

Leu Cys Arg Ala His Pro Thr Leu Lys Ala Ile Glu Met Phe His Phe
260 265 270

Arg Gly Pro Ser Gln Val Gly Asp Arg Leu Val Leu Lys Ala Ile Val
275 280 285

Asn Asn Ala Phe Lys His Ser Met Glu Val Gly Val Cys Val Glu Ala
290 295 300

Tyr Arg Gln Glu Ala Glu Thr His Arg Arg His Ile Asn Ser Ala Phe
305 310 315 320

Met Thr Phe Val Val Leu Asp Ala Asp Asp Gln Pro Gln Leu Leu Pro
325 330 335

Trp Ile Arg Pro Gln Pro Gly Asp Gly Glu Arg Arg Tyr Arg Glu Ala
340 345 350

Ser Ala Arg Lys Lys Ile Arg Leu Asp Arg Lys Tyr Ile Val Ser Cys
355 360 365

Lys Gln Thr Glu Val Pro Leu Ser Val Pro Trp Asp Pro Ser Asn Gln
370 375 380

Val Tyr Leu Ser Tyr Asn Asn Val Ser Ser Leu Lys Met Leu Val Ala
385 390 395 400

Lys Asp Asn Trp Val Leu Ser Ser Glu Ile Ser Gln Val Arg Leu Tyr
405 410 415

Thr Leu Glu Asp Asp Lys Phe Leu Ser Phe His Met Glu Met Val Val
420 425 430

His Val Asp Ala Ala Gln Ala Phe Leu Leu Leu Ser Asp Leu Arg Gln
435 440 445

Arg Pro Glu Trp Asp Lys His Tyr Arg Ser Val Glu Leu Val Gln Gln
450 455 460

Val Asp Glu Asp Asp Ala Ile Tyr His Val Thr Ser Pro Ala Leu Gly
465 470 475 480

Gly His Thr Lys Pro Gln Asp Phe Val Ile Leu Ala Ser Arg Arg Lys
485 490 495

Pro Cys Asp Asn Gly Asp Pro Tyr Val Ile Ala Leu Arg Ser Val Thr
500 505 510

Leu Pro Thr His Arg Glu Thr Pro Glu Tyr Arg Arg Gly Glu Thr Leu
515 520 525

Cys Ser Gly Phe Cys Leu Trp Arg Glu Gly Asp Gln Leu Thr Lys Val
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Ser Tyr Tyr Asn Gln Ala Thr Pro Gly Val Leu Asn Tyr Val Thr Thr
545 550 555 560

Asn Val Ala Gly Leu Ser Ser Glu Phe Tyr Thr Thr Phe Lys Ala Cys
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Thr Leu

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<213> Mus musculus

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<211> 594
<212> PRT
<213> Mus musculus

<400> 6

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Asp Pro Pro Thr Met Ala Glu Gly Glu Gly Tyr Arg Asn Pro Thr Glu
         35                  40                  45

Val Gln Met Ser Gln Leu Val Leu Pro Cys His Thr Asn His Arg Gly
     50                  55                  60

Glu Leu Ser Ile Gly Gln Leu Leu Lys Trp Ile Asp Thr Thr Ala Cys
 65                  70                  75                  80

Leu Ser Ala Glu Arg His Ala Gly Cys Pro Cys Val Thr Ala Ser Met
                 85                  90                  95

Asp Asp Ile Tyr Phe Asp His Thr Ile Ser Val Gly Gln Val Val Asn
            100                 105                 110

Ile Lys Ala Lys Val Asn Arg Ala Phe Asn Ser Ser Met Glu Val Gly
        115                 120                 125

Ile Gln Val Val Ser Glu Asp Leu Cys Ser Glu Lys Gln Trp Ser Val
    130                 135                 140

Cys Lys Ala Leu Ala Thr Phe Val Ala His Arg Glu Leu Ser Lys Val
145                 150                 155                 160

Lys Leu Lys Gln Val Ile Pro Leu Thr Glu Glu Glu Lys Thr Glu His
                165                 170                 175

Gly Val Ala Ala Glu Arg Arg Arg Met Arg Leu Val Tyr Ala Asp Thr
            180                 185                 190
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Ile Lys Asp Leu Leu Thr His Cys Val Ile Gln Asp Asp Leu Asp Lys
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Asp Cys Ser Asn Met Val Pro Ala Glu Lys Thr Arg Val Glu Ser Val
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Glu Leu Val Leu Pro Pro His Ala Asn His Gln Gly Asn Thr Phe Gly
225                 230                 235                 240

Gly Gln Ile Met Ala Trp Met Glu Asn Val Ala Thr Ile Ala Ala Ser
                245                 250                 255

Arg Leu Cys His Ala His Pro Thr Leu Lys Ala Ile Glu Met Phe His
            260                 265                 270

Phe Arg Gly Pro Ser Gln Val Gly Asp Arg Leu Val Leu Lys Ala Ile
        275                 280                 285

Val Asn Asn Ala Phe Lys His Ser Met Glu Val Gly Val Cys Val Glu
    290                 295                 300

Ala Tyr Arg Gln Glu Ala Glu Thr Gln Arg Arg His Ile Asn Ser Ala
305                 310                 315                 320

Phe Met Thr Phe Val Val Leu Asp Lys Asp Asp Gln Pro Gln Lys Leu
                325                 330                 335

Pro Trp Ile Arg Pro Gln Pro Gly Glu Gly Glu Arg Arg Tyr Arg Glu
            340                 345                 350

Ala Ser Ala Arg Lys Lys Ile Arg Leu Asp Arg Lys Tyr Leu Val Ser
        355                 360                 365

Cys Lys Gln Ala Glu Val Ala Leu Ser Val Pro Trp Asp Pro Ser Asn
    370                 375                 380

Gln Val Tyr Leu Ser Tyr Tyr Asn Val Ser Ser Leu Lys Thr Leu Met
385                 390                 395                 400

Ala Lys Asp Asn Trp Val Leu Ser Val Glu Ile Ser Glu Val Arg Leu
                405                 410                 415

Tyr Ile Leu Glu Glu Asp Phe Leu Ser Phe His Leu Glu Met Val Val
            420                 425                 430

Asn Val Asp Ala Ala Gln Val Phe Gln Leu Leu Ser Asp Leu Arg Arg
        435                 440                 445
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Arg Pro Glu Trp Asp Lys His Tyr Arg Ser Val Glu Leu Val Gln Gln
    450                 455                 460

Val Asp Glu Asp Asp Ala Ile Tyr His Val Ile Ser Pro Ala Leu Ser
465                 470                 475                 480

Gly Asn Thr Lys Pro Gln Asp Phe Val Ile Leu Ala Ser Arg Arg Lys
                485                 490                 495

Pro Cys Asp Asn Gly Asp Pro Tyr Val Ile Ala Leu Arg Ser Val Thr
            500                 505                 510

Leu Pro Thr His His Glu Thr Pro Glu Tyr Gln Arg Gly Glu Thr Leu
        515                 520                 525

Cys Ser Gly Phe Cys Leu Trp Arg Glu Gly Asp Gln Met Thr Lys Val
    530                 535                 540

Ser Tyr Tyr Asn Gln Ala Thr Pro Gly Phe Leu Asn Tyr Val Thr Thr
545                 550                 555                 560

Asn Val Ser Gly Leu Ser Ser Glu Phe Tyr Asn Thr Phe Lys Ala Cys
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Glu Ser Phe Leu Leu Asp Asn Arg Asn Asp Leu Ala Pro Ser Leu Gln
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Thr Leu
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<212> DNA
<213> Artificial Sequence

<220>
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<400> 7
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<210> 8
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Mouse BFIT probe

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<210> 9
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<220>
<223> Description of Artificial Sequence: Mouse BFIT reverse primer

<400> 9
tactgccctg ccacaccaa 19

<210> 10
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Human BFIT1 forward primer

<400> 10
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<210> 11
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Human BFIT1 probe

<400> 11
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<210> 12
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<220>
<223> Description of Artificial Sequence: Human BFIT1 reverse primer

<400> 12
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<210> 13
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Human BFIT2 forward primer

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<210> 14
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<212> DNA
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<220>
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<210> 15
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<212> DNA
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<220>
<223> Description of Artificial Sequence: Human BFIT2 reverse primer

<400> 15
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<210> 16
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<220>
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chromosomal locus forward primer

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<210> 17
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<212> DNA
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<220>
<223> Description of Artificial Sequence: Mouse BFIT
chromosomal locus reverse primer

<400> 17
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<210> 18
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: AB014607
reverse primer

<400> 18
ccagaccctc tagatgccct ca 22

<210> 19
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: AB014607
forward primer

<400> 19
atgatccaga atgtcggaaa tcac 24

<210> 20
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: AB014607
reverse primer

<400> 20
agacacctga aaccttatca tgagcc 26

<210> 21
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Inverse PCR
primer e6.bat.snr1

<400> 21
gccactgagt cagagtccag ccaac 25

<210> 22
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Inverse PCR
primer e6.bat.snf1

<400> 22
ccagcctgca gctggaagga c 21

<210> 23

<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Mouse BFIT
specific probe

<400> 23
aaatccacat ggctgttccc agcagtgctg tggtacactg tgacagt 47